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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,500	10/748,500 12/30/2003		Eric S. Shapiro	ITL.1050US (P17704)	8739
21906	7590	06/15/2006		EXAMINER	
TROP PRU		•	NGUYEN, PATRICIA T		
HOUSTON,), SUITE 750 057-2631		ART UNIT	PAPER NUMBER
,				2817	
				DATE MAILED: 06/15/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		. —	1.01
	Application No.	Applicant(s)	
	10/748,500	SHAPIRO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Patricia T. Nguyen	2817	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 Cl after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION (FR 1.136(a)). In no event, however, may a right. Begin of the community of the co	CATION. reply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	•		
	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice unconditions.	owance except for formal matt		S
Disposition of Claims			
4)⊠ Claim(s) <u>1,3-13,15-23,25-27 and 31</u> is/are	pending in the application.		
4a) Of the above claim(s) is/are with			
5)⊠ Claim(s) <u>1,3-13 and 15</u> is/are allowed.			
6)⊠ Claim(s) <u>16,19-23,26,27 and 31</u> is/are reje	ected.		
7)⊠ Claim(s) <u>17,18 and 26</u> is/are objected to.			
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to	o the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	· · · · · · · · · · · · · · · · · · ·		(d).
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:		} 119(a)-(d) or (f).	
1. Certified copies of the priority docur		and a standard Ala	
2. Certified copies of the priority docur			
3. Copies of the certified copies of the		received in this National Stage	
application from the International Boat See the attached detailed Office action for a		received	
	a list of the certified copies flot	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94/3) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S 		s)/Mail Date nformal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 23, 25, and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Wong, U.S. Patent # 5,550,513.

Figs. 1, 3, and 5 of Wong discloses a circuit comprising: input stage 12 can be read as a differential preamplifier stage; stages 260-300 can be read as a distributed differential amplifier stage; transmission lines 80, 81, 87, 89, 236, 238 and resistors, inductors, capacitors on the lines can be read as bridging element wherein transmission lines 87 and 89 can be read as first and second output transmission lines or a first and a second line; resistors 252, 254, 256, 258, inductors 84 can be read as at least one passive element; resistors 232, 234, 242, 246, 252, 254, 256, 258, capacitors 244, 248 can be read as differential end termination interface.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 20 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong, U.S. Patent # 5,550,513.

Although Wong does not mention that the transmission lines are transverse electromagnetic transmission line segment, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to use transverse electromagnetic transmission line segment for his transmission lines in order to have an optimum performance for his circuit since this is a matter of design choice.

Claims 16, 19, 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong, U.S. Patent # 5,550,513 in view of Brehmer et al., U.S. Patent # 6,130,423.

Although Wong does not have an optical fiber coupled to the distributed amplifier stage, Brehmer et al. teaches such a connection. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to connect an optical fiber coupled to the distributed amplifier stage in order to have a practical use for the circuit since this is an intended use for the circuit to meet system requirements.

Allowable Subject Matter

Claims 17, 18, and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1, 3-13, and 15 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents # 6,768,378 B2 and # 6,094,099 contain some limitations of the claimed invention.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia T. Nguyen whose telephone number is (571) 272-1768. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2817

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PTN

June 11, 2006

PATRICIA NGUYEN

Patricia Ngruyen

PRIMARY EXAMINER